



April 02, 2012

Brad Davis
Zia Engineering & Environmental
755 S Telshor Blvd Ste F-201
Las Cruces, NM 88011
TEL: (575) 993-6824
FAX (575) 532-1587
RE: HELSTF Diesel Spill

Order No.: 1203192

Dear Brad Davis:

DHL Analytical received 3 sample(s) on 3/21/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont", is written over a white background.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2



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From: (505) 532-1526
Zia Engineering

Origin ID: LRUA



755 S. Telsfor Blvd.
Suite Q-201
Las Cruces, NM 88011

J12101112190225

Ship Date: 20MAR12
ActWgt: 60.0 LB
CAD: 102287640/NET3250

Delivery Address Bar Code



SHIP TO: (512) 388-8222

BILL SENDER

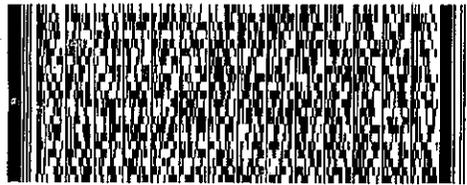
John Dupont
DHL Analytical
2300 DOUBLE CREEK DR

ROUND ROCK, TX 78664

Ref # LCS-09-015
Invoice #
PO #
Dept #

WED - 21 MAR A1
PRIORITY OVERNIGHT

TRK# 7933 6039 0452
0201



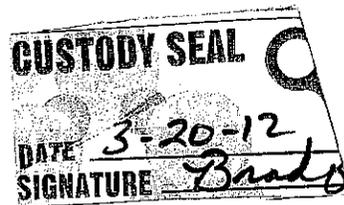
XH BSMA

78664
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AUS



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Sample Receipt Checklist

Client Name Zia Engineering & Environmental

Date Received: 3/21/2012

Work Order Number 1203192

Received by JB

Checklist completed by: [Signature] 3/21/2012
Signature Date

Reviewed by: [Initials] 3/21/2012
Initials Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 2.3 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? NO Checked by [Signature]

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: HELSTF Diesel Spill		Date: 4/2/2012					
Reviewer Name: Angie O'Donnell		Laboratory Work Order: 1203192					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C)					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			R4-02
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			R5-04
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			R6-04
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
6) Was the LCSD RPD within QC limits (if applicable)?	X						
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
4) Were MS/MSD RPDs within laboratory QC limits?	X						
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
3) Were RPDs or relative standard deviations within the laboratory QC limits?	X						
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
3) Are unadjusted MQLs included in the laboratory data package?	X						
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: HELSTF Diesel Spill

Date: 4/2/2012

Reviewer Name: Angie O'Donnell

Laboratory Work Order: 1203192

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?		X			S1-06
S2	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB)					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			S2-02
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standards (IS)					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs)					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results					
		1) Were percent recoveries within method QC limits?	X				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs)					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

John DuPont – General Manager

Scott Schroeder – Technical Director



Signature

04/02/12

Date

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Lab Order: 1203192

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Method SW6020 - Metals Analysis
Method M8015D - DRO Analysis
Method SW8260C - Volatile Organics
Method M4500-H+ B - pH of a Water
Method M5310C - TOC Analysis
Method M3500-CR D - Hexavalent Chromium - Water (Trivalent Chromium is not NELAC Certified)

Exception Report R1-01

The samples were received and log-in performed on 3/21/2012. A total of 3 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For DRO Analysis, the recovery of surrogate Octacosane for Sample HLSF-0154-HCF-001-0312 was above the method control limits. This was flagged accordingly in the Analytical Data report. The remaining surrogate for this sample was within method control limits. No further corrective action was taken.

Exception Report R5-04

For Volatile Analysis, Acetone was detected below the reporting limit for Method Blank 51105, due to laboratory artifact. The associated samples are nondetect for this compound. No further corrective action was taken.

Exception Report R6-04

For Volatile Analysis, the recovery of Acetone was slightly above the method control limits. This is flagged accordingly in the QC Summary Report. This compound is nondetect in the associated samples. No further corrective action was taken.

Exception Report R7-03

For Volatiles Analysis, the recovery of a couple of compounds for the Matrix Spike and Matrix Spike

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Lab Order: 1203192

CASE NARRATIVE

Duplicate (1203208-05 MS/MSD) were slightly outside of the method control limits. These are flagged accordingly in the QC Summary report. These compounds were within method control limits in the associated LCS or are nondetect in the associated samples. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. No further corrective action was taken.

For Hexachrome Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1203192-01 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary report. The associated LCS was within method control limits. No further corrective action was taken.

Exception Report R10-01

For DRO analysis an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

Exception Report S1-06

For Volatiles analysis, the recovery of Dichlorodifluoromethane for the Second Source Calibration Verification is above the method control limits. The associated samples are nondetect for this compound. No further corrective action was taken.

Exception Report S2-02

For Volatiles Analysis, the recoveries of a few compounds for the Initial Calibration Verification (ICV-120323) were slightly outside of the method control limits. These are flagged accordingly in the QC Summary report. These compounds were within method control limits in the associated LCS. No further corrective action was taken.

Exception Report S5-02

For Volatile Analysis, some samples and/or standards were manually integrated. Please refer to the manual integration table at the end of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

DHL Analytical received the Project RFQ from the client on 12/29/09. Completed RFQ returned to client via email on 1/07/2010. Purchase Order/Terms and Conditions received and signed and approved by both parties on 01/25/2010.

Brad Davis of Zia requested a bottle kit via email from Jennifer Barker of DHL on 2/16/2012. A DHL BottleKit #3133 sent on 2/20/2012 via Lonestar Overnight, to arrive by 2/22/2012.

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Lab Order: 1203192

CASE NARRATIVE

This sample delivery group arrived at DHL Analytical 3/21/12. Sample summary sent via email from Log-in to client on 3/21/12.

All hardcopies for the sample kit request, bill of lading for sample kit sent and login summary are kept in project folder.

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Lab Order: 1203192

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1203192-01	HLSF-0154-HCF-001-0312		03/20/12 11:35 AM	3/21/2012
1203192-02	HLSF-0154-RB-001-0312		03/20/12 11:45 AM	3/21/2012
1203192-03	HLSF-0154-DRW-004-0312		03/20/12 01:10 PM	3/21/2012

Lab Order: 1203192
Client: Zia Engineering & Environmental
Project: HELSTF Diesel Spill

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1203192-01A	HLSF-0154-HCF-001-0312	03/20/12 11:35 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/23/12 09:59 AM	51105
1203192-01B	HLSF-0154-HCF-001-0312	03/20/12 11:35 AM	Aqueous	M5310C	TOC prep Aqueous	03/22/12 08:30 AM	51090
1203192-01C	HLSF-0154-HCF-001-0312	03/20/12 11:35 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/12 08:39 AM	51099
1203192-01D	HLSF-0154-HCF-001-0312	03/20/12 11:35 AM	Aqueous	SW7196A	Hexachrom Prep Water	03/21/12 11:32 AM	51073
	HLSF-0154-HCF-001-0312	03/20/12 11:35 AM	Aqueous	M4500-H+ B	pH Preparation	03/21/12 11:00 AM	51081
1203192-01E	HLSF-0154-HCF-001-0312	03/20/12 11:35 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/23/12 09:09 AM	51101
	HLSF-0154-HCF-001-0312	03/20/12 11:35 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/23/12 09:09 AM	51101
1203192-02A	HLSF-0154-RB-001-0312	03/20/12 11:45 AM	Equip Blank	SW5030C	Purge and Trap Water GC/MS	03/23/12 09:59 AM	51105
1203192-02B	HLSF-0154-RB-001-0312	03/20/12 11:45 AM	Equip Blank	M5310C	TOC prep Aqueous	03/22/12 08:30 AM	51090
1203192-02C	HLSF-0154-RB-001-0312	03/20/12 11:45 AM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	03/23/12 08:39 AM	51099
1203192-02D	HLSF-0154-RB-001-0312	03/20/12 11:45 AM	Equip Blank	SW7196A	Hexachrom Prep Water	03/21/12 11:32 AM	51073
	HLSF-0154-RB-001-0312	03/20/12 11:45 AM	Equip Blank	M4500-H+ B	pH Preparation	03/21/12 11:00 AM	51081
1203192-02E	HLSF-0154-RB-001-0312	03/20/12 11:45 AM	Equip Blank	SW3510C	Aq Prep Sep Funnel: DRO	03/23/12 09:09 AM	51101
1203192-03A	HLSF-0154-DRW-004-0312	03/20/12 01:10 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/23/12 09:59 AM	51105
1203192-03B	HLSF-0154-DRW-004-0312	03/20/12 01:10 PM	Aqueous	M5310C	TOC prep Aqueous	03/22/12 08:30 AM	51090
1203192-03C	HLSF-0154-DRW-004-0312	03/20/12 01:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/23/12 08:39 AM	51099
1203192-03D	HLSF-0154-DRW-004-0312	03/20/12 01:10 PM	Aqueous	SW7196A	Hexachrom Prep Water	03/21/12 11:32 AM	51073
	HLSF-0154-DRW-004-0312	03/20/12 01:10 PM	Aqueous	M4500-H+ B	pH Preparation	03/21/12 11:00 AM	51081
1203192-03E	HLSF-0154-DRW-004-0312	03/20/12 01:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/23/12 09:09 AM	51101
	HLSF-0154-DRW-004-0312	03/20/12 01:10 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/23/12 09:09 AM	51101

Lab Order: 1203192
Client: Zia Engineering & Environmental
Project: HELSTF Diesel Spill

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1203192-01A	HLSF-0154-HCF-001-0312	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	51105	1	03/23/12 03:38 PM	GCMS7_120323A
1203192-01B	HLSF-0154-HCF-001-0312	Aqueous	M5310C	Total Organic Carbon	51090	2	03/22/12 02:56 PM	TOC_120322A
1203192-01C	HLSF-0154-HCF-001-0312	Aqueous	SW6020	Trace Metals: ICP-MS - Water	51099	1	03/26/12 05:04 PM	ICP-MS3_120326A
1203192-01D	HLSF-0154-HCF-001-0312	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	51073	1	03/21/12 12:38 PM	UV/VIS_2_120321A
	HLSF-0154-HCF-001-0312	Aqueous	M4500-H+ B	pH	51081	1	03/21/12 11:42 AM	TITRATOR_120321A
1203192-01E	HLSF-0154-HCF-001-0312	Aqueous	M8015D	TPH Extractable by GC - Water	51101	10	04/02/12 11:18 AM	GC15_120402A
	HLSF-0154-HCF-001-0312	Aqueous	M8015D	TPH Extractable by GC - Water	51101	1	04/02/12 11:27 AM	GC15_120402A
1203192-02A	HLSF-0154-RB-001-0312	Equip Blank	SW8260C	8260 Water Volatiles by GC/MS	51105	1	03/23/12 04:03 PM	GCMS7_120323A
1203192-02B	HLSF-0154-RB-001-0312	Equip Blank	M5310C	Total Organic Carbon	51090	1	03/22/12 01:50 PM	TOC_120322A
1203192-02C	HLSF-0154-RB-001-0312	Equip Blank	SW6020	Trace Metals: ICP-MS - Water	51099	1	03/26/12 05:09 PM	ICP-MS3_120326A
1203192-02D	HLSF-0154-RB-001-0312	Equip Blank	M3500-Cr D	Hexavalent Chromium-Water	51073	1	03/21/12 12:45 PM	UV/VIS_2_120321A
	HLSF-0154-RB-001-0312	Equip Blank	M4500-H+ B	pH	51081	1	03/21/12 11:47 AM	TITRATOR_120321A
1203192-02E	HLSF-0154-RB-001-0312	Equip Blank	M8015D	TPH Extractable by GC - Water	51101	1	04/02/12 10:51 AM	GC15_120402A
1203192-03A	HLSF-0154-DRW-004-0312	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	51105	1	03/23/12 04:27 PM	GCMS7_120323A
1203192-03B	HLSF-0154-DRW-004-0312	Aqueous	M5310C	Total Organic Carbon	51090	1	03/22/12 02:13 PM	TOC_120322A
1203192-03C	HLSF-0154-DRW-004-0312	Aqueous	SW6020	Trace Metals: ICP-MS - Water	51099	1	03/26/12 05:15 PM	ICP-MS3_120326A
1203192-03D	HLSF-0154-DRW-004-0312	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	51073	1	03/21/12 12:45 PM	UV/VIS_2_120321A
	HLSF-0154-DRW-004-0312	Aqueous	M4500-H+ B	pH	51081	1	03/21/12 11:49 AM	TITRATOR_120321A
1203192-03E	HLSF-0154-DRW-004-0312	Aqueous	M8015D	TPH Extractable by GC - Water	51101	1	04/02/12 11:09 AM	GC15_120402A
	HLSF-0154-DRW-004-0312	Aqueous	M8015D	TPH Extractable by GC - Water	51101	10	04/02/12 11:00 AM	GC15_120402A

DHL Analytical

Date: 02-Apr-12

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Project No:
Lab Order: 1203192

Client Sample ID: HLSF-0154-HCF-001-0312
Lab ID: 1203192-01
Collection Date: 03/20/12 11:35 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M8015D		Analyst: DO			
TPH-DRO C10-C28	11.6	0.500	1.00		mg/L	10	04/02/12 11:18 AM
Surr: Isopropylbenzene	55.2	0	47-142		%REC	10	04/02/12 11:18 AM
Surr: Octacosane	145	0	51-124	S	%REC	10	04/02/12 11:18 AM
TRACE METALS: ICP-MS - WATER		SW6020		Analyst: AJR			
Chromium	0.00278	0.00200	0.00600	J	mg/L	1	03/26/12 05:04 PM
8260 WATER VOLATILES BY GC/MS		SW8260C		Analyst: KL			
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,1-Dichloroethane	0.00228	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 03:38 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 03:38 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 03:38 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/23/12 03:38 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 03:38 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/23/12 03:38 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 03:38 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 03:38 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 03:38 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 03:38 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 03:38 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/23/12 03:38 PM
Benzene	0.00652	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical

Date: 02-Apr-12

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Project No:
Lab Order: 1203192

Client Sample ID: HLSF-0154-HCF-001-0312
Lab ID: 1203192-01
Collection Date: 03/20/12 11:35 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 03:38 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 03:38 PM
Isopropylbenzene	0.00155	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 03:38 PM
Methyl tert-butyl ether	0.00303	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/23/12 03:38 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
sec-Butylbenzene	0.00162	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 03:38 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 03:38 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 03:38 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 03:38 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 03:38 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/23/12 03:38 PM
Surr: 1,2-Dichloroethane-d4	101	0	70-120		%REC	1	03/23/12 03:38 PM
Surr: 4-Bromofluorobenzene	105	0	75-120		%REC	1	03/23/12 03:38 PM
Surr: Dibromofluoromethane	107	0	85-115		%REC	1	03/23/12 03:38 PM
Surr: Toluene-d8	99.9	0	85-120		%REC	1	03/23/12 03:38 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

DHL Analytical

Date: 02-Apr-12

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Project No:
Lab Order: 1203192

Client Sample ID: HLSF-0154-HCF-001-0312
Lab ID: 1203192-01
Collection Date: 03/20/12 11:35 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM-WATER		M3500-CR D		Analyst: LM			
Hexavalent Chromium	<0.00800	0.00800	0.0100		mg/L	1	03/21/12 12:38 PM
Trivalent Chromium	0.00278	0.00200	0.00600	N	mg/L	1	03/21/12 12:38 PM
PH		M4500-H+ B		Analyst: JBC			
pH	7.25	0	0		pH Units	1	03/21/12 11:42 AM
TOTAL ORGANIC CARBON		M5310C		Analyst: TGK			
Total Organic Carbon	25.3	0.600	2.00		mg/L	2	03/22/12 02:56 PM

Qualifiers:	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
MDL	Method Detection Limit	ND Not Detected at the Method Detection Limit
RL	Reporting Limit	S Spike Recovery outside control limits
N	Parameter not NELAC certified	

DHL Analytical

Date: 02-Apr-12

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Project No:
Lab Order: 1203192

Client Sample ID: HLSF-0154-RB-001-0312
Lab ID: 1203192-02
Collection Date: 03/20/12 11:45 AM
Matrix: EQUIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M8015D		Analyst: DO			
TPH-DRO C10-C28	<0.0500	0.0500	0.100		mg/L	1	04/02/12 10:51 AM
Surr: Isopropylbenzene	63.1	0	47-142		%REC	1	04/02/12 10:51 AM
Surr: Octacosane	93.9	0	51-124		%REC	1	04/02/12 10:51 AM
TRACE METALS: ICP-MS - WATER		SW6020		Analyst: AJR			
Chromium	<0.00200	0.00200	0.00600		mg/L	1	03/26/12 05:09 PM
8260 WATER VOLATILES BY GC/MS		SW8260C		Analyst: KL			
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 04:03 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 04:03 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 04:03 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/23/12 04:03 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 04:03 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/23/12 04:03 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:03 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:03 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:03 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:03 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:03 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/23/12 04:03 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 02-Apr-12

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Project No:
Lab Order: 1203192

Client Sample ID: HLSF-0154-RB-001-0312
Lab ID: 1203192-02
Collection Date: 03/20/12 11:45 AM
Matrix: EQUIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Bromodichloromethane	0.00258	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Bromoform	0.000340	0.000200	0.00100	J	mg/L	1	03/23/12 04:03 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:03 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
Chloroform	0.00345	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Dibromochloromethane	0.00188	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:03 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:03 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/23/12 04:03 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:03 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:03 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:03 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:03 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:03 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/23/12 04:03 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-120		%REC	1	03/23/12 04:03 PM
Surr: 4-Bromofluorobenzene	111	0	75-120		%REC	1	03/23/12 04:03 PM
Surr: Dibromofluoromethane	99.1	0	85-115		%REC	1	03/23/12 04:03 PM
Surr: Toluene-d8	102	0	85-120		%REC	1	03/23/12 04:03 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

DHL Analytical

Date: 02-Apr-12

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Project No:
Lab Order: 1203192

Client Sample ID: HLSF-0154-RB-001-0312
Lab ID: 1203192-02
Collection Date: 03/20/12 11:45 AM
Matrix: EQUIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM-WATER		M3500-CR D		Analyst: LM			
Hexavalent Chromium	<0.00800	0.00800	0.0100		mg/L	1	03/21/12 12:45 PM
Trivalent Chromium	<0.00200	0.00200	0.00600	N	mg/L	1	03/21/12 12:45 PM
PH		M4500-H+ B		Analyst: JBC			
pH	8.51	0	0		pH Units	1	03/21/12 11:47 AM
TOTAL ORGANIC CARBON		M5310C		Analyst: TGK			
Total Organic Carbon	1.07	0.300	1.00		mg/L	1	03/22/12 01:50 PM

Qualifiers:	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
MDL	Method Detection Limit	ND Not Detected at the Method Detection Limit
RL	Reporting Limit	S Spike Recovery outside control limits
N	Parameter not NELAC certified	

DHL Analytical

Date: 02-Apr-12

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Project No:
Lab Order: 1203192

Client Sample ID: HLSF-0154-DRW-004-0312
Lab ID: 1203192-03
Collection Date: 03/20/12 01:10 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M8015D		Analyst: DO			
TPH-DRO C10-C28	2.93	0.0500	0.100		mg/L	1	04/02/12 11:09 AM
Surr: Isopropylbenzene	57.8	0	47-142		%REC	1	04/02/12 11:09 AM
Surr: Octacosane	99.8	0	51-124		%REC	1	04/02/12 11:09 AM
TRACE METALS: ICP-MS - WATER		SW6020		Analyst: AJR			
Chromium	0.00719	0.00200	0.00600		mg/L	1	03/26/12 05:15 PM
8260 WATER VOLATILES BY GC/MS		SW8260C		Analyst: KL			
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,1-Dichloroethane	0.0608	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,1-Dichloroethene	0.00146	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 04:27 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 04:27 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 04:27 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/23/12 04:27 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/23/12 04:27 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/23/12 04:27 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:27 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:27 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:27 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:27 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:27 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/23/12 04:27 PM
Benzene	0.00214	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical

Date: 02-Apr-12

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Project No:
Lab Order: 1203192

Client Sample ID: HLSF-0154-DRW-004-0312
Lab ID: 1203192-03
Collection Date: 03/20/12 01:10 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:27 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/23/12 04:27 PM
Isopropylbenzene	0.000620	0.000200	0.00100	J	mg/L	1	03/23/12 04:27 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:27 PM
Methyl tert-butyl ether	0.00219	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/23/12 04:27 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
sec-Butylbenzene	0.000740	0.000300	0.00100	J	mg/L	1	03/23/12 04:27 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/23/12 04:27 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:27 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:27 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/23/12 04:27 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/23/12 04:27 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/23/12 04:27 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-120		%REC	1	03/23/12 04:27 PM
Surr: 4-Bromofluorobenzene	105	0	75-120		%REC	1	03/23/12 04:27 PM
Surr: Dibromofluoromethane	105	0	85-115		%REC	1	03/23/12 04:27 PM
Surr: Toluene-d8	100	0	85-120		%REC	1	03/23/12 04:27 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

DHL Analytical

Date: 02-Apr-12

CLIENT: Zia Engineering & Environmental
Project: HELSTF Diesel Spill
Project No:
Lab Order: 1203192

Client Sample ID: HLSF-0154-DRW-004-0312
Lab ID: 1203192-03
Collection Date: 03/20/12 01:10 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM-WATER		M3500-CR D		Analyst: LM			
Hexavalent Chromium	<0.00800	0.00800	0.0100		mg/L	1	03/21/12 12:45 PM
Trivalent Chromium	0.00719	0.00200	0.00600	N	mg/L	1	03/21/12 12:45 PM
PH		M4500-H+ B		Analyst: JBC			
pH	7.23	0	0		pH Units	1	03/21/12 11:49 AM
TOTAL ORGANIC CARBON		M5310C		Analyst: TGK			
Total Organic Carbon	14.4	0.300	1.00		mg/L	1	03/22/12 02:13 PM

Qualifiers:	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
MDL	Method Detection Limit	ND Not Detected at the Method Detection Limit
RL	Reporting Limit	S Spike Recovery outside control limits
N	Parameter not NELAC certified	

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_120402A

The QC data in batch 51101 applies to the following samples: 1203192-01E, 1203192-02E, 1203192-03E

Sample ID: LCS-51101	Batch ID: 51101	TestNo: M8015D	Units: mg/L							
SampType: LCS	Run ID: GC15_120402A	Analysis Date: 4/2/2012 10:16:46 AM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.13	0.100	1.250	0	90.1	50	114			
Surr: Isopropylbenzene	0.0574		0.1000		57.4	47	142			
Surr: Octacosane	0.0872		0.1000		87.2	51	124			

Sample ID: LCSD-51101	Batch ID: 51101	TestNo: M8015D	Units: mg/L							
SampType: LCSD	Run ID: GC15_120402A	Analysis Date: 4/2/2012 10:25:33 AM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.16	0.100	1.250	0	92.6	50	114	2.72	30	
Surr: Isopropylbenzene	0.0508		0.1000		50.8	47	142	0	0	
Surr: Octacosane	0.0913		0.1000		91.3	51	124	0	0	

Sample ID: MB-51101	Batch ID: 51101	TestNo: M8015D	Units: mg/L							
SampType: MBLK	Run ID: GC15_120402A	Analysis Date: 4/2/2012 10:43:09 AM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0493		0.1000		49.3	47	142			
Surr: Octacosane	0.0890		0.1000		89.0	51	124			

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_120402A

Sample ID: ICV-120402	Batch ID: R59836	TestNo: M8015D	Units: mg/L
SampType: ICV	Run ID: GC15_120402A	Analysis Date: 4/2/2012 10:07:58 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	589	0.100	500.0	0	118	80	120			
Surr: Isopropylbenzene	26.0		25.00		104	80	120			
Surr: Octacosane	25.5		25.00		102	80	120			

Sample ID: CCV1-120402	Batch ID: R59836	TestNo: M8015D	Units: mg/L
SampType: CCV	Run ID: GC15_120402A	Analysis Date: 4/2/2012 11:56:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	287	0.100	250.0	0	115	80	120			
Surr: Isopropylbenzene	12.7		12.50		102	80	120			
Surr: Octacosane	13.7		12.50		110	80	120			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_120326A

The QC data in batch 51099 applies to the following samples: 1203192-01C, 1203192-02C, 1203192-03C

Sample ID: MB-51099	Batch ID: 51099	TestNo: SW6020	Units: mg/L							
SampType: MBLK	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 2:31:00 PM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	<0.00200	0.00600								
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Sample ID: LCS-51099	Batch ID: 51099	TestNo: SW6020	Units: mg/L							
SampType: LCS	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 2:36:00 PM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.202	0.00600	0.200	0	101	80	120			
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Sample ID: LCSD-51099	Batch ID: 51099	TestNo: SW6020	Units: mg/L							
SampType: LCSD	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 2:42:00 PM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.201	0.00600	0.200	0	101	80	120	0.743	15	
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Sample ID: 1203208-05B SD	Batch ID: 51099	TestNo: SW6020	Units: mg/L							
SampType: SD	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 2:59:00 PM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	<0.0100	0.0300	0	0				0	10	
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Sample ID: 1203208-05B PDS	Batch ID: 51099	TestNo: SW6020	Units: mg/L							
SampType: PDS	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 4:00:00 PM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.188	0.00600	0.200	0	94.0	75	125			
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Sample ID: 1203208-05B MS	Batch ID: 51099	TestNo: SW6020	Units: mg/L							
SampType: MS	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 4:06:00 PM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.188	0.00600	0.200	0	94.2	80	120			
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Sample ID: 1203208-05B MSD	Batch ID: 51099	TestNo: SW6020	Units: mg/L							
SampType: MSD	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 4:12:00 PM	Prep Date: 3/23/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.191	0.00600	0.200	0	95.6	80	120	1.58	15	
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- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_120326A

Sample ID: ICV1-120326	Batch ID: R59760	TestNo: SW6020	Units: mg/L							
SampType: ICV	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 1:56:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.104	0.00600	0.100	0	104	90	110			
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Sample ID: CCV1-120326	Batch ID: R59760	TestNo: SW6020	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 4:17:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.203	0.00600	0.200	0	101	90	110			
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Sample ID: CCV2-120326	Batch ID: R59760	TestNo: SW6020	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_120326A	Analysis Date: 3/26/2012 5:55:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.209	0.00600	0.200	0	104	90	110			
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<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

The QC data in batch 51105 applies to the following samples: 1203192-01A, 1203192-02A, 1203192-03A

Sample ID: LCS-51105	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: LCS	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 10:15:00 AM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0230	0.00100	0.0232	0	99.3	80	130			
1,1,1-Trichloroethane	0.0223	0.00100	0.0232	0	96.0	65	130			
1,1,2,2-Tetrachloroethane	0.0262	0.00100	0.0232	0	113	65	130			
1,1,2-Trichloroethane	0.0218	0.00100	0.0232	0	94.0	75	125			
1,1-Dichloroethane	0.0233	0.00100	0.0232	0	100	70	135			
1,1-Dichloroethene	0.0245	0.00100	0.0232	0	105	70	130			
1,1-Dichloropropene	0.0219	0.00100	0.0232	0	94.3	75	130			
1,2,3-Trichlorobenzene	0.0276	0.00500	0.0232	0	119	55	140			
1,2,3-Trichloropropane	0.0252	0.00100	0.0232	0	108	75	125			
1,2,4-Trichlorobenzene	0.0274	0.00500	0.0232	0	118	65	135			
1,2,4-Trimethylbenzene	0.0250	0.00500	0.0232	0	108	75	130			
1,2-Dibromo-3-chloropropane	0.0257	0.0100	0.0232	0	111	50	130			
1,2-Dibromoethane	0.0235	0.00100	0.0232	0	101	80	120			
1,2-Dichlorobenzene	0.0250	0.00100	0.0232	0	108	70	120			
1,2-Dichloroethane	0.0205	0.00100	0.0232	0	88.4	70	130			
1,2-Dichloropropane	0.0214	0.00100	0.0232	0	92.0	75	125			
1,3,5-Trimethylbenzene	0.0245	0.00500	0.0232	0	106	75	130			
1,3-Dichlorobenzene	0.0238	0.00100	0.0232	0	103	75	125			
1,3-Dichloropropane	0.0236	0.00100	0.0232	0	102	75	125			
1,4-Dichloro-2-butene	0.0233	0.00200	0.0232	0	101	50	150			
1,4-Dichlorobenzene	0.0246	0.00100	0.0232	0	106	75	125			
2,2-Dichloropropane	0.0258	0.00100	0.0232	0	111	70	135			
2-Butanone	0.0246	0.0150	0.0232	0	106	30	150			
2-Chloroethylvinylether	0.0225	0.0150	0.0232	0	96.9	50	150			
2-Chlorotoluene	0.0244	0.00100	0.0232	0	105	75	125			
2-Hexanone	0.0254	0.0150	0.0232	0	109	55	130			
4-Chlorotoluene	0.0246	0.00100	0.0232	0	106	75	130			
4-Methyl-2-pentanone	0.0249	0.0150	0.0232	0	107	60	135			
Acetone	0.0429	0.0150	0.0232	0	185	40	140			S
Acrylonitrile	0.0439	0.00300	0.0464	0	94.6	50	150			
Benzene	0.0212	0.00100	0.0232	0	91.3	80	120			
Bromobenzene	0.0231	0.00100	0.0232	0	99.7	75	125			
Bromochloromethane	0.0223	0.00100	0.0232	0	96.1	65	130			
Bromodichloromethane	0.0207	0.00100	0.0232	0	89.1	75	120			
Bromoform	0.0216	0.00100	0.0232	0	93.0	70	130			
Bromomethane	0.0218	0.00100	0.0232	0	94.1	30	145			
Carbon disulfide	0.0222	0.0150	0.0232	0	95.7	35	160			
Carbon tetrachloride	0.0227	0.00100	0.0232	0	97.8	65	140			
Chlorobenzene	0.0226	0.00100	0.0232	0	97.2	80	120			
Chloroethane	0.0247	0.00100	0.0232	0	107	60	135			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: LCS-51105	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: LCS	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 10:15:00 AM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	0.0227	0.00100	0.0232	0	98.0	65	135			
Chloromethane	0.0244	0.00100	0.0232	0	105	40	125			
cis-1,2-Dichloroethene	0.0224	0.00100	0.0232	0	96.4	70	125			
cis-1,3-Dichloropropene	0.0216	0.00100	0.0232	0	93.1	70	130			
Dibromochloromethane	0.0216	0.00100	0.0232	0	93.3	60	135			
Dibromomethane	0.0207	0.00100	0.0232	0	89.4	75	125			
Dichlorodifluoromethane	0.0219	0.00100	0.0232	0	94.6	30	155			
Ethylbenzene	0.0226	0.00100	0.0232	0	97.4	75	125			
Iodomethane	0.0228	0.0150	0.0232	0	98.4	50	150			
Isopropylbenzene	0.0229	0.00100	0.0232	0	98.5	75	125			
m,p-Xylene	0.0465	0.00200	0.0464	0	100	75	130			
Methyl tert-butyl ether	0.0256	0.00100	0.0232	0	110	65	125			
Methylene chloride	0.0267	0.00250	0.0232	0	115	55	140			
n-Butylbenzene	0.0281	0.00100	0.0232	0	121	70	135			
n-Propylbenzene	0.0249	0.00100	0.0232	0	107	70	130			
o-Xylene	0.0229	0.00100	0.0232	0	98.5	80	120			
p-Isopropyltoluene	0.0249	0.00100	0.0232	0	107	75	130			
sec-Butylbenzene	0.0252	0.00100	0.0232	0	109	70	125			
Styrene	0.0216	0.00100	0.0232	0	93.1	65	135			
tert-Butylbenzene	0.0243	0.00100	0.0232	0	105	70	130			
Tetrachloroethene	0.0215	0.00200	0.0232	0	92.7	45	150			
Toluene	0.0208	0.00200	0.0232	0	89.6	75	120			
trans-1,2-Dichloroethene	0.0232	0.00100	0.0232	0	100	60	140			
trans-1,3-Dichloropropene	0.0209	0.00100	0.0232	0	90.2	55	140			
Trichloroethene	0.0200	0.00200	0.0232	0	86.2	70	125			
Trichlorofluoromethane	0.0237	0.00100	0.0232	0	102	60	145			
Vinyl chloride	0.0250	0.00100	0.0232	0	108	50	145			
Surr: 1,2-Dichloroethane-d4	202		200.0		101	70	120			
Surr: 4-Bromofluorobenzene	210		200.0		105	75	120			
Surr: Dibromofluoromethane	197		200.0		98.4	85	115			
Surr: Toluene-d8	209		200.0		104	85	120			

Sample ID: MB-51105	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: MBLK	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 10:40:00 AM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.000200	0.00100								
1,1,1-Trichloroethane	<0.000200	0.00100								
1,1,2,2-Tetrachloroethane	<0.000200	0.00100								
1,1,2-Trichloroethane	<0.000200	0.00100								
1,1-Dichloroethane	<0.000200	0.00100								

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: MB-51105	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: MBLK	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 10:40:00 AM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	<0.000200	0.00100								
1,1-Dichloropropene	<0.000200	0.00100								
1,2,3-Trichlorobenzene	<0.00150	0.00500								
1,2,3-Trichloropropane	<0.000300	0.00100								
1,2,4-Trichlorobenzene	<0.00150	0.00500								
1,2,4-Trimethylbenzene	<0.00150	0.00500								
1,2-Dibromo-3-chloropropane	<0.00300	0.0100								
1,2-Dibromoethane	<0.000200	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,2-Dichloropropane	<0.000200	0.00100								
1,3,5-Trimethylbenzene	<0.00150	0.00500								
1,3-Dichlorobenzene	<0.000300	0.00100								
1,3-Dichloropropane	<0.000200	0.00100								
1,4-Dichloro-2-butene	<0.00200	0.00200								
1,4-Dichlorobenzene	<0.000300	0.00100								
2,2-Dichloropropane	<0.000200	0.00100								
2-Butanone	<0.00500	0.0150								
2-Chloroethylvinylether	<0.00500	0.0150								
2-Chlorotoluene	<0.000300	0.00100								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.000300	0.00100								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	0.00920	0.0150								
Acrylonitrile	<0.00100	0.00300								
Benzene	<0.000200	0.00100								
Bromobenzene	<0.000200	0.00100								
Bromochloromethane	<0.000200	0.00100								
Bromodichloromethane	<0.000200	0.00100								
Bromoform	<0.000200	0.00100								
Bromomethane	<0.000300	0.00100								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.000200	0.00100								
Chlorobenzene	<0.000200	0.00100								
Chloroethane	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Chloromethane	<0.000300	0.00100								
cis-1,2-Dichloroethene	<0.000200	0.00100								
cis-1,3-Dichloropropene	<0.000200	0.00100								
Dibromochloromethane	<0.000200	0.00100								
Dibromomethane	<0.000200	0.00100								

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: MB-51105	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: MBLK	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 10:40:00 AM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	<0.000200	0.00100								
Ethylbenzene	<0.000300	0.00100								
Iodomethane	<0.00500	0.0150								
Isopropylbenzene	<0.000200	0.00100								
m,p-Xylene	<0.000600	0.00200								
Methyl tert-butyl ether	<0.000300	0.00100								
Methylene chloride	<0.00250	0.00250								
n-Butylbenzene	<0.000300	0.00100								
n-Propylbenzene	<0.000300	0.00100								
o-Xylene	<0.000300	0.00100								
p-Isopropyltoluene	<0.000300	0.00100								
sec-Butylbenzene	<0.000300	0.00100								
Styrene	<0.000200	0.00100								
tert-Butylbenzene	<0.000300	0.00100								
Tetrachloroethene	<0.000600	0.00200								
Toluene	<0.000600	0.00200								
trans-1,2-Dichloroethene	<0.000200	0.00100								
trans-1,3-Dichloropropene	<0.000200	0.00100								
Trichloroethene	<0.000600	0.00200								
Trichlorofluoromethane	<0.000200	0.00100								
Vinyl chloride	<0.000100	0.00100								
Surr: 1,2-Dichloroethane-d4	217		200.0		109	70	120			
Surr: 4-Bromofluorobenzene	202		200.0		101	75	120			
Surr: Dibromofluoromethane	218		200.0		109	85	115			
Surr: Toluene-d8	199		200.0		99.6	85	120			

Sample ID: 1203208-05AMS	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: MS	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 1:36:00 PM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0211	0.00100	0.0232	0	90.9	80	130			
1,1,1-Trichloroethane	0.0221	0.00100	0.0232	0	95.4	65	130			
1,1,2,2-Tetrachloroethane	0.0258	0.00100	0.0232	0	111	65	130			
1,1,2-Trichloroethane	0.0209	0.00100	0.0232	0	90.0	75	125			
1,1-Dichloroethane	0.0242	0.00100	0.0232	0.00128	99.0	70	135			
1,1-Dichloroethene	0.0315	0.00100	0.0232	0.00595	110	70	130			
1,1-Dichloropropene	0.0216	0.00100	0.0232	0	92.9	75	130			
1,2,3-Trichlorobenzene	0.0236	0.00500	0.0232	0	102	55	140			
1,2,3-Trichloropropane	0.0259	0.00100	0.0232	0	112	75	125			
1,2,4-Trichlorobenzene	0.0230	0.00500	0.0232	0	99.2	65	135			
1,2,4-Trimethylbenzene	0.0233	0.00500	0.0232	0	100	75	130			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: 1203208-05AMS	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: MS	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 1:36:00 PM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.0254	0.0100	0.0232	0	109	50	130			
1,2-Dibromoethane	0.0222	0.00100	0.0232	0	95.7	80	120			
1,2-Dichlorobenzene	0.0233	0.00100	0.0232	0	100	70	120			
1,2-Dichloroethane	0.0201	0.00100	0.0232	0	86.6	70	130			
1,2-Dichloropropane	0.0200	0.00100	0.0232	0	86.4	75	125			
1,3,5-Trimethylbenzene	0.0234	0.00500	0.0232	0	101	75	130			
1,3-Dichlorobenzene	0.0226	0.00100	0.0232	0	97.5	75	125			
1,3-Dichloropropane	0.0224	0.00100	0.0232	0	96.6	75	125			
1,4-Dichloro-2-butene	0.0239	0.00200	0.0232	0	103	50	150			
1,4-Dichlorobenzene	0.0231	0.00100	0.0232	0	99.4	75	125			
2,2-Dichloropropane	0.0217	0.00100	0.0232	0	93.7	70	135			
2-Butanone	0.0251	0.0150	0.0232	0	108	30	150			
2-Chloroethylvinylether	<0.00500	0.0150	0.0232	0	0	50	150			S
2-Chlorotoluene	0.0236	0.00100	0.0232	0	102	75	125			
2-Hexanone	0.0320	0.0150	0.0232	0	138	55	130			S
4-Chlorotoluene	0.0236	0.00100	0.0232	0	102	75	130			
4-Methyl-2-pentanone	0.0310	0.0150	0.0232	0	133	60	135			
Acetone	0.0305	0.0150	0.0232	0.0150	67.1	40	140			
Acrylonitrile	0.0445	0.00300	0.0464	0	95.9	50	150			
Benzene	0.0218	0.00100	0.0232	0	93.9	80	120			
Bromobenzene	0.0222	0.00100	0.0232	0	95.6	75	125			
Bromochloromethane	0.0213	0.00100	0.0232	0	91.6	65	130			
Bromodichloromethane	0.0192	0.00100	0.0232	0	82.8	75	120			
Bromoform	0.0207	0.00100	0.0232	0	89.1	70	130			
Bromomethane	0.0257	0.00100	0.0232	0	111	30	145			
Carbon disulfide	0.0217	0.0150	0.0232	0	93.4	35	160			
Carbon tetrachloride	0.0213	0.00100	0.0232	0	91.9	65	140			
Chlorobenzene	0.0220	0.00100	0.0232	0	95.0	80	120			
Chloroethane	0.0251	0.00100	0.0232	0	108	60	135			
Chloroform	0.0217	0.00100	0.0232	0	93.7	65	135			
Chloromethane	0.0246	0.00100	0.0232	0	106	40	125			
cis-1,2-Dichloroethene	0.0217	0.00100	0.0232	0	93.6	70	125			
cis-1,3-Dichloropropene	0.0192	0.00100	0.0232	0	82.9	70	130			
Dibromochloromethane	0.0204	0.00100	0.0232	0	88.0	60	135			
Dibromomethane	0.0202	0.00100	0.0232	0	87.3	75	125			
Dichlorodifluoromethane	0.0223	0.00100	0.0232	0.000210	95.2	30	155			
Ethylbenzene	0.0221	0.00100	0.0232	0	95.2	75	125			
Iodomethane	0.0234	0.0150	0.0232	0	101	50	150			
Isopropylbenzene	0.0231	0.00100	0.0232	0	99.4	75	125			
m,p-Xylene	0.0472	0.00200	0.0464	0	102	75	130			
Methyl tert-butyl ether	0.0222	0.00100	0.0232	0	95.7	65	125			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: 1203208-05AMS	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: MS	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 1:36:00 PM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene chloride	0.0263	0.00250	0.0232	0	113	55	140			
n-Butylbenzene	0.0254	0.00100	0.0232	0	110	70	135			
n-Propylbenzene	0.0239	0.00100	0.0232	0	103	70	130			
o-Xylene	0.0232	0.00100	0.0232	0	99.8	80	120			
p-Isopropyltoluene	0.0227	0.00100	0.0232	0	97.7	75	130			
sec-Butylbenzene	0.0230	0.00100	0.0232	0	99.1	70	125			
Styrene	0.0217	0.00100	0.0232	0	93.7	65	135			
tert-Butylbenzene	0.0229	0.00100	0.0232	0	98.5	70	130			
Tetrachloroethene	0.0206	0.00200	0.0232	0	88.8	45	150			
Toluene	0.0203	0.00200	0.0232	0	87.3	75	120			
trans-1,2-Dichloroethene	0.0216	0.00100	0.0232	0	93.0	60	140			
trans-1,3-Dichloropropene	0.0190	0.00100	0.0232	0	82.0	55	140			
Trichloroethene	0.0192	0.00200	0.0232	0	82.6	70	125			
Trichlorofluoromethane	0.0245	0.00100	0.0232	0	106	60	145			
Vinyl chloride	0.0252	0.00100	0.0232	0	109	50	145			
Surr: 1,2-Dichloroethane-d4	214		200.0		107	70	120			
Surr: 4-Bromofluorobenzene	212		200.0		106	75	120			
Surr: Dibromofluoromethane	208		200.0		104	85	115			
Surr: Toluene-d8	208		200.0		104	85	120			

Sample ID: 1203208-05AMSD	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: MSD	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 2:01:00 PM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0196	0.00100	0.0232	0	84.6	80	130	7.12	30	
1,1,1-Trichloroethane	0.0195	0.00100	0.0232	0	84.1	65	130	12.7	30	
1,1,1,2,2-Tetrachloroethane	0.0244	0.00100	0.0232	0	105	65	130	5.54	30	
1,1,2-Trichloroethane	0.0187	0.00100	0.0232	0	80.5	75	125	11.1	30	
1,1-Dichloroethane	0.0215	0.00100	0.0232	0.00128	87.2	70	135	11.9	30	
1,1-Dichloroethene	0.0269	0.00100	0.0232	0.00595	90.5	70	130	15.6	30	
1,1-Dichloropropene	0.0190	0.00100	0.0232	0	81.8	75	130	12.7	30	
1,2,3-Trichlorobenzene	0.0230	0.00500	0.0232	0	99.2	55	140	2.36	30	
1,2,3-Trichloropropane	0.0246	0.00100	0.0232	0	106	75	125	5.26	30	
1,2,4-Trichlorobenzene	0.0223	0.00500	0.0232	0	95.9	65	135	3.31	30	
1,2,4-Trimethylbenzene	0.0224	0.00500	0.0232	0	96.6	75	130	3.94	30	
1,2-Dibromo-3-chloropropane	0.0248	0.0100	0.0232	0	107	50	130	2.27	30	
1,2-Dibromoethane	0.0201	0.00100	0.0232	0	86.8	80	120	9.78	30	
1,2-Dichlorobenzene	0.0217	0.00100	0.0232	0	93.5	70	120	7.03	30	
1,2-Dichloroethane	0.0204	0.00100	0.0232	0	87.9	70	130	1.43	30	
1,2-Dichloropropane	0.0181	0.00100	0.0232	0	78.1	75	125	10.0	30	
1,3,5-Trimethylbenzene	0.0226	0.00500	0.0232	0	97.5	75	130	3.22	30	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: 1203208-05AMSD	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: MSD	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 2:01:00 PM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.0215	0.00100	0.0232	0	92.8	75	125	4.85	30	
1,3-Dichloropropane	0.0207	0.00100	0.0232	0	89.4	75	125	7.83	30	
1,4-Dichloro-2-butene	0.0220	0.00200	0.0232	0	94.7	50	150	8.38	30	
1,4-Dichlorobenzene	0.0220	0.00100	0.0232	0	95.0	75	125	4.61	30	
2,2-Dichloropropane	0.0198	0.00100	0.0232	0	85.5	70	135	9.19	30	
2-Butanone	0.0215	0.0150	0.0232	0	92.5	30	150	15.7	30	
2-Chloroethylvinylether	<0.00500	0.0150	0.0232	0	0	50	150	0	30	S
2-Chlorotoluene	0.0229	0.00100	0.0232	0	98.6	75	125	3.14	30	
2-Hexanone	0.0293	0.0150	0.0232	0	126	55	130	8.72	30	
4-Chlorotoluene	0.0232	0.00100	0.0232	0	100	75	130	1.54	30	
4-Methyl-2-pentanone	0.0280	0.0150	0.0232	0	121	60	135	10.1	30	
Acetone	0.0276	0.0150	0.0232	0.0150	54.5	40	140	10.0	30	
Acrylonitrile	0.0385	0.00300	0.0464	0	83.0	50	150	14.3	30	
Benzene	0.0195	0.00100	0.0232	0	84.2	80	120	10.9	30	
Bromobenzene	0.0214	0.00100	0.0232	0	92.3	75	125	3.49	30	
Bromochloromethane	0.0196	0.00100	0.0232	0	84.5	65	130	8.03	30	
Bromodichloromethane	0.0167	0.00100	0.0232	0	72.0	75	120	14.0	30	S
Bromoform	0.0181	0.00100	0.0232	0	77.8	70	130	13.4	30	
Bromomethane	0.0212	0.00100	0.0232	0	91.2	30	145	19.3	30	
Carbon disulfide	0.0181	0.0150	0.0232	0	77.8	35	160	18.2	30	
Carbon tetrachloride	0.0188	0.00100	0.0232	0	81.0	65	140	12.6	30	
Chlorobenzene	0.0208	0.00100	0.0232	0	89.9	80	120	5.55	30	
Chloroethane	0.0227	0.00100	0.0232	0	97.9	60	135	9.76	30	
Chloroform	0.0197	0.00100	0.0232	0	84.7	65	135	10.0	30	
Chloromethane	0.0224	0.00100	0.0232	0	96.3	40	125	9.42	30	
cis-1,2-Dichloroethene	0.0190	0.00100	0.0232	0	82.1	70	125	13.1	30	
cis-1,3-Dichloropropene	0.0166	0.00100	0.0232	0	71.7	70	130	14.6	30	
Dibromochloromethane	0.0191	0.00100	0.0232	0	82.2	60	135	6.74	30	
Dibromomethane	0.0190	0.00100	0.0232	0	81.9	75	125	6.42	30	
Dichlorodifluoromethane	0.0198	0.00100	0.0232	0.000210	84.5	30	155	11.8	30	
Ethylbenzene	0.0207	0.00100	0.0232	0	89.4	75	125	6.31	30	
Iodomethane	0.0227	0.0150	0.0232	0	97.9	50	150	3.12	30	
Isopropylbenzene	0.0200	0.00100	0.0232	0	86.2	75	125	14.2	30	
m,p-Xylene	0.0421	0.00200	0.0464	0	90.7	75	130	11.5	30	
Methyl tert-butyl ether	0.0195	0.00100	0.0232	0	84.1	65	125	12.9	30	
Methylene chloride	0.0235	0.00250	0.0232	0	101	55	140	11.3	30	
n-Butylbenzene	0.0230	0.00100	0.0232	0	99.1	70	135	9.96	30	
n-Propylbenzene	0.0231	0.00100	0.0232	0	99.5	70	130	3.32	30	
o-Xylene	0.0204	0.00100	0.0232	0	87.8	80	120	12.8	30	
p-Isopropyltoluene	0.0220	0.00100	0.0232	0	94.7	75	130	3.18	30	
sec-Butylbenzene	0.0222	0.00100	0.0232	0	95.8	70	125	3.36	30	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: 1203208-05AMSD	Batch ID: 51105	TestNo: SW8260C	Units: mg/L
SampType: MSD	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 2:01:00 PM	Prep Date: 3/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Styrene	0.0187	0.00100	0.0232	0	80.8	65	135	14.8	30	
tert-Butylbenzene	0.0224	0.00100	0.0232	0	96.3	70	130	2.26	30	
Tetrachloroethene	0.0186	0.00200	0.0232	0	80.1	45	150	10.2	30	
Toluene	0.0182	0.00200	0.0232	0	78.6	75	120	10.5	30	
trans-1,2-Dichloroethene	0.0195	0.00100	0.0232	0	84.2	60	140	9.92	30	
trans-1,3-Dichloropropene	0.0174	0.00100	0.0232	0	75.0	55	140	8.90	30	
Trichloroethene	0.0177	0.00200	0.0232	0	76.2	70	125	8.03	30	
Trichlorofluoromethane	0.0217	0.00100	0.0232	0	93.7	60	145	12.0	30	
Vinyl chloride	0.0225	0.00100	0.0232	0	97.0	50	145	11.3	30	
Surr: 1,2-Dichloroethane-d4	207		200.0		104	70	120	0	0	
Surr: 4-Bromofluorobenzene	213		200.0		106	75	120	0	0	
Surr: Dibromofluoromethane	193		200.0		96.7	85	115	0	0	
Surr: Toluene-d8	194		200.0		97.1	85	120	0	0	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: ICV-120323	Batch ID: R59747	TestNo: SW8260C	Units: mg/L
SampType: ICV	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 9:51:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0460	0.00100	0.0464	0	99.2	80	120			
1,1,1-Trichloroethane	0.0420	0.00100	0.0464	0	90.4	80	120			
1,1,2,2-Tetrachloroethane	0.0538	0.00100	0.0464	0	116	80	120			
1,1,2-Trichloroethane	0.0425	0.00100	0.0464	0	91.6	80	120			
1,1-Dichloroethane	0.0404	0.00100	0.0464	0	87.0	80	120			
1,1-Dichloroethene	0.0418	0.00100	0.0464	0	90.1	80	120			
1,1-Dichloropropene	0.0423	0.00100	0.0464	0	91.3	80	120			
1,2,3-Trichlorobenzene	0.0517	0.00500	0.0464	0	111	80	120			
1,2,3-Trichloropropane	0.0528	0.00100	0.0464	0	114	80	120			
1,2,4-Trichlorobenzene	0.0518	0.00500	0.0464	0	112	80	120			
1,2,4-Trimethylbenzene	0.0487	0.00500	0.0464	0	105	80	120			
1,2-Dibromo-3-chloropropane	0.0546	0.0100	0.0464	0	118	80	120			
1,2-Dibromoethane	0.0459	0.00100	0.0464	0	98.9	80	120			
1,2-Dichlorobenzene	0.0461	0.00100	0.0464	0	99.4	80	120			
1,2-Dichloroethane	0.0406	0.00100	0.0464	0	87.6	80	120			
1,2-Dichloropropane	0.0419	0.00100	0.0464	0	90.3	80	120			
1,3,5-Trimethylbenzene	0.0478	0.00500	0.0464	0	103	80	120			
1,3-Dichlorobenzene	0.0458	0.00100	0.0464	0	98.8	80	120			
1,3-Dichloropropane	0.0460	0.00100	0.0464	0	99.2	80	120			
1,4-Dichloro-2-butene	0.0524	0.00200	0.0464	0	113	80	120			
1,4-Dichlorobenzene	0.0467	0.00100	0.0464	0	101	80	120			
2,2-Dichloropropane	0.0458	0.00100	0.0464	0	98.7	80	120			
2-Butanone	0.0490	0.0150	0.0464	0	106	80	120			
2-Chloroethylvinylether	0.0445	0.0150	0.0464	0	95.9	80	120			
2-Chlorotoluene	0.0472	0.00100	0.0464	0	102	80	120			
2-Hexanone	0.0526	0.0150	0.0464	0	113	80	120			
4-Chlorotoluene	0.0477	0.00100	0.0464	0	103	80	120			
4-Methyl-2-pentanone	0.0521	0.0150	0.0464	0	112	80	120			
Acetone	0.0582	0.0150	0.0464	0	125	80	120			S
Acrylonitrile	0.0782	0.00300	0.0928	0	84.2	60	140			
Benzene	0.0400	0.00100	0.0464	0	86.3	80	120			
Bromobenzene	0.0441	0.00100	0.0464	0	95.0	80	120			
Bromochloromethane	0.0375	0.00100	0.0464	0	80.8	80	120			
Bromodichloromethane	0.0420	0.00100	0.0464	0	90.5	80	120			
Bromoform	0.0466	0.00100	0.0464	0	100	80	120			
Bromomethane	0.0408	0.00100	0.0464	0	88.0	80	120			
Carbon disulfide	0.0387	0.0150	0.0464	0	83.3	80	120			
Carbon tetrachloride	0.0437	0.00100	0.0464	0	94.1	80	120			
Chlorobenzene	0.0434	0.00100	0.0464	0	93.6	80	120			
Chloroethane	0.0362	0.00100	0.0464	0	78.1	80	120			S
Chloroform	0.0390	0.00100	0.0464	0	84.1	80	120			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_120323A

Sample ID: ICV-120323	Batch ID: R59747	TestNo: SW8260C	Units: mg/L
SampType: ICV	Run ID: GCMS7_120323A	Analysis Date: 3/23/2012 9:51:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloromethane	0.0421	0.00100	0.0464	0	90.6	80	120			
cis-1,2-Dichloroethene	0.0386	0.00100	0.0464	0	83.1	80	120			
cis-1,3-Dichloropropene	0.0430	0.00100	0.0464	0	92.8	80	120			
Dibromochloromethane	0.0453	0.00100	0.0464	0	97.7	80	120			
Dibromomethane	0.0400	0.00100	0.0464	0	86.2	80	120			
Dichlorodifluoromethane	0.0382	0.00100	0.0464	0	82.3	80	120			
Ethylbenzene	0.0430	0.00100	0.0464	0	92.8	80	120			
Iodomethane	0.0421	0.0150	0.0464	0	90.6	80	120			
Isopropylbenzene	0.0435	0.00100	0.0464	0	93.8	80	120			
m,p-Xylene	0.0872	0.00200	0.0928	0	94.0	80	120			
Methyl tert-butyl ether	0.0478	0.00100	0.0464	0	103	80	120			
Methylene chloride	0.0470	0.00250	0.0464	0	101	80	120			
n-Butylbenzene	0.0535	0.00100	0.0464	0	115	80	120			
n-Propylbenzene	0.0482	0.00100	0.0464	0	104	80	120			
o-Xylene	0.0433	0.00100	0.0464	0	93.3	80	120			
p-Isopropyltoluene	0.0478	0.00100	0.0464	0	103	80	120			
sec-Butylbenzene	0.0477	0.00100	0.0464	0	103	80	120			
Styrene	0.0413	0.00100	0.0464	0	88.9	80	120			
tert-Butylbenzene	0.0466	0.00100	0.0464	0	100	80	120			
Tetrachloroethene	0.0411	0.00200	0.0464	0	88.5	80	120			
Toluene	0.0395	0.00200	0.0464	0	85.1	80	120			
trans-1,2-Dichloroethene	0.0396	0.00100	0.0464	0	85.4	80	120			
trans-1,3-Dichloropropene	0.0434	0.00100	0.0464	0	93.5	80	120			
Trichloroethene	0.0386	0.00200	0.0464	0	83.2	80	120			
Trichlorofluoromethane	0.0355	0.00100	0.0464	0	76.5	80	120			
Vinyl chloride	0.0438	0.00100	0.0464	0	94.4	80	120			S
Surr: 1,2-Dichloroethane-d4	200		200.0		100	70	120			
Surr: 4-Bromofluorobenzene	215		200.0		108	75	120			
Surr: Dibromofluoromethane	184		200.0		91.9	85	115			
Surr: Toluene-d8	207		200.0		104	85	120			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_120321A

The QC data in batch 51081 applies to the following samples: 1203192-01D, 1203192-02D, 1203192-03D

Sample ID: 1203192-01D DUP	Batch ID: 51081	TestNo: M4500-H+ B	Units: pH Units							
SampType: DUP	Run ID: TITRATOR_120321A	Analysis Date: 3/21/2012 11:44:00 AM	Prep Date: 3/21/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.25	0	0	7.250				0	5	

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_120321A

Sample ID: ICV-120321	Batch ID: R59698	TestNo: M4500-H+ B	Units: pH Units							
SampType: ICV	Run ID: TITRATOR_120321A	Analysis Date: 3/21/2012 11:41:00 AM	Prep Date: 3/21/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	10.0	0	10.00	0	100	99	101			

Sample ID: CCV-120321	Batch ID: R59698	TestNo: M4500-H+ B	Units: pH Units							
SampType: CCV	Run ID: TITRATOR_120321A	Analysis Date: 3/21/2012 11:50:00 AM	Prep Date: 3/21/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TOC_120322A

The QC data in batch 51090 applies to the following samples: 1203192-01B, 1203192-02B, 1203192-03B

Sample ID: LCS-51090	Batch ID: 51090	TestNo: M5310C	Units: mg/L							
SampType: LCS	Run ID: TOC_120322A	Analysis Date: 3/22/2012 11:03:00 AM	Prep Date: 3/22/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	9.83	1.00	10.00	0	98.3	80	120			

Sample ID: MB-51090	Batch ID: 51090	TestNo: M5310C	Units: mg/L							
SampType: MBLK	Run ID: TOC_120322A	Analysis Date: 3/22/2012 11:28:00 AM	Prep Date: 3/22/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	<0.300	1.00								

Sample ID: 1203161-02B MS	Batch ID: 51090	TestNo: M5310C	Units: mg/L							
SampType: MS	Run ID: TOC_120322A	Analysis Date: 3/22/2012 3:20:00 PM	Prep Date: 3/22/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	11.2	1.00	10.00	1.108	101	80	120			

Sample ID: 1203161-02B MSD	Batch ID: 51090	TestNo: M5310C	Units: mg/L							
SampType: MSD	Run ID: TOC_120322A	Analysis Date: 3/22/2012 3:44:00 PM	Prep Date: 3/22/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	11.3	1.00	10.00	1.108	102	80	120	0.863	15	

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TOC_120322A

Sample ID: ICV-120322	Batch ID: R59724	TestNo: M5310C	Units: mg/L							
SampType: ICV	Run ID: TOC_120322A	Analysis Date: 3/22/2012 10:42:00 AM	Prep Date: 3/22/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	14.6	1.00	15.00	0	97.5	90	110			

Sample ID: CCV-120322	Batch ID: R59724	TestNo: M5310C	Units: mg/L							
SampType: CCV	Run ID: TOC_120322A	Analysis Date: 3/22/2012 4:04:00 PM	Prep Date: 3/22/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	10.5	1.00	10.00	0	105	80	120			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_120321A

The QC data in batch 51073 applies to the following samples: 1203192-01D, 1203192-02D, 1203192-03D

Sample ID: MB-51073	Batch ID: 51073	TestNo: M3500-Cr D	Units: mg/L							
SampType: MBLK	Run ID: UV/VIS_2_120321A	Analysis Date: 3/21/2012 12:35:00 PM	Prep Date: 3/21/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Hexavalent Chromium	<0.00800	0.0100
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Sample ID: LCS-51073	Batch ID: 51073	TestNo: M3500-Cr D	Units: mg/L							
SampType: LCS	Run ID: UV/VIS_2_120321A	Analysis Date: 3/21/2012 12:35:00 PM	Prep Date: 3/21/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.0957	0.0100	0.100	0	95.7	85	115
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Sample ID: LCSD-51073	Batch ID: 51073	TestNo: M3500-Cr D	Units: mg/L							
SampType: LCSD	Run ID: UV/VIS_2_120321A	Analysis Date: 3/21/2012 12:38:00 PM	Prep Date: 3/21/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.0997	0.0100	0.100	0	99.7	85	115	4.09	15
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Sample ID: 1203192-01D MS	Batch ID: 51073	TestNo: M3500-Cr D	Units: mg/L							
SampType: MS	Run ID: UV/VIS_2_120321A	Analysis Date: 3/21/2012 12:42:00 PM	Prep Date: 3/21/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.0672	0.0100	0.100	0	67.2	85	115			S
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Sample ID: 1203192-01D MSD	Batch ID: 51073	TestNo: M3500-Cr D	Units: mg/L							
SampType: MSD	Run ID: UV/VIS_2_120321A	Analysis Date: 3/21/2012 12:42:00 PM	Prep Date: 3/21/2012							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.0700	0.0100	0.100	0	70.0	85	115	4.14	15	S
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Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Zia Engineering & Environmental
Work Order: 1203192
Project: HELSTF Diesel Spill

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_120321A

Sample ID: ICV-120321	Batch ID: R59693	TestNo: M3500-Cr D	Units: mg/L							
SampType: ICV	Run ID: UV/VIS_2_120321A	Analysis Date: 3/21/2012 12:35:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0978	0.0100	0.100	0	97.8	90	110			

Sample ID: CCV-120321	Batch ID: R59693	TestNo: M3500-Cr D	Units: mg/L							
SampType: CCV	Run ID: UV/VIS_2_120321A	Analysis Date: 3/21/2012 12:45:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.196	0.0100	0.200	0	98.1	90	110			

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

Lab Order: 1203192
Client: Zia Engineering & Environmental
Project: HELSTF Diesel Spill

Sequence Report

Run ID: GC15_120402A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120402	----	M8015D	R59836	1	4/2/2012 10:07:58 AM		A
LCS-51101	----	M8015D	51101	1	4/2/2012 10:16:46 AM	3/23/2012 9:09:45 AM	A
LCSD-51101	----	M8015D	51101	1	4/2/2012 10:25:33 AM	3/23/2012 9:09:45 AM	A
MB-51101	----	M8015D	51101	1	4/2/2012 10:43:09 AM	3/23/2012 9:09:45 AM	A
1203192-02E	HLSF-0154-RB-001-0312	M8015D	51101	1	4/2/2012 10:51:55 AM	3/23/2012 9:09:45 AM	E
1203192-03E	HLSF-0154-DRW-004-0312	M8015D	51101	10	4/2/2012 11:00:42 AM	3/23/2012 9:09:45 AM	A
	HLSF-0154-DRW-004-0312	M8015D	51101	1	4/2/2012 11:09:28 AM	3/23/2012 9:09:45 AM	A
1203192-01E	HLSF-0154-HCF-001-0312	M8015D	51101	10	4/2/2012 11:18:14 AM	3/23/2012 9:09:45 AM	A
	HLSF-0154-HCF-001-0312	M8015D	51101	1	4/2/2012 11:27:01 AM	3/23/2012 9:09:45 AM	A
CCV1-120402	----	M8015D	R59836	1	4/2/2012 11:56:00 AM		A

Run ID: GCMS7_120323A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120323	----	SW8260C	R59747	1	3/23/2012 9:51:00 AM		A
LCS-51105	----	SW8260C	51105	1	3/23/2012 10:15:00 AM	3/23/2012 9:59:01 AM	A
MB-51105	----	SW8260C	51105	1	3/23/2012 10:40:00 AM	3/23/2012 9:59:01 AM	A
1203208-05AMS	----	SW8260C	51105	1	3/23/2012 1:36:00 PM	3/23/2012 9:59:01 AM	A
1203208-05AMSD	----	SW8260C	51105	1	3/23/2012 2:01:00 PM	3/23/2012 9:59:01 AM	A
1203192-01A	HLSF-0154-HCF-001-0312	SW8260C	51105	1	3/23/2012 3:38:00 PM	3/23/2012 9:59:01 AM	A
1203192-02A	HLSF-0154-RB-001-0312	SW8260C	51105	1	3/23/2012 4:03:00 PM	3/23/2012 9:59:01 AM	E
1203192-03A	HLSF-0154-DRW-004-0312	SW8260C	51105	1	3/23/2012 4:27:00 PM	3/23/2012 9:59:01 AM	A

Lab Order: 1203192
Client: Zia Engineering & Environmental
Project: HELSTF Diesel Spill

Sequence Report

Run ID: ICP-MS3_120326A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
BLANK STD 1	----	SW6020	R59760	1	3/26/2012 12:23:00 PM		A
1/20 ppb STD.	----	SW6020	R59760	1	3/26/2012 12:29:00 PM		A
10/200 ppb STD.	----	SW6020	R59760	1	3/26/2012 12:35:00 PM		A
250/5000 ppb STD.	----	SW6020	R59760	1	3/26/2012 12:40:00 PM		A
500/10000 ppb STD.	----	SW6020	R59760	1	3/26/2012 12:46:00 PM		A
2000/25000 ppb ST	----	SW6020	R59760	1	3/26/2012 12:52:00 PM		A
ICSA-120326	----	SW6020	R59760	1	3/26/2012 1:33:00 PM		A
ICSAB-120326	----	SW6020	R59760	1	3/26/2012 1:39:00 PM		A
ICV1-120326	----	SW6020	R59760	1	3/26/2012 1:56:00 PM		A
ICB1-120326	----	SW6020	R59760	1	3/26/2012 2:13:00 PM		A
MB-51099	----	SW6020	51099	1	3/26/2012 2:31:00 PM	3/23/2012 8:39:57 AM	A
LCS-51099	----	SW6020	51099	1	3/26/2012 2:36:00 PM	3/23/2012 8:39:57 AM	A
LCSD-51099	----	SW6020	51099	1	3/26/2012 2:42:00 PM	3/23/2012 8:39:57 AM	A
1203208-05B SD	----	SW6020	51099	5	3/26/2012 2:59:00 PM	3/23/2012 8:39:57 AM	A
1203208-05B PDS	----	SW6020	51099	1	3/26/2012 4:00:00 PM	3/23/2012 8:39:57 AM	A
1203208-05B MS	----	SW6020	51099	1	3/26/2012 4:06:00 PM	3/23/2012 8:39:57 AM	A
1203208-05B MSD	----	SW6020	51099	1	3/26/2012 4:12:00 PM	3/23/2012 8:39:57 AM	A
CCV1-120326	----	SW6020	R59760	1	3/26/2012 4:17:00 PM		A
CCB1-120326	----	SW6020	R59760	1	3/26/2012 4:41:00 PM		A
1203192-01C	HLSF-0154-HCF-001-0312	SW6020	51099	1	3/26/2012 5:04:00 PM	3/23/2012 8:39:57 AM	A
1203192-02C	HLSF-0154-RB-001-0312	SW6020	51099	1	3/26/2012 5:09:00 PM	3/23/2012 8:39:57 AM	E
1203192-03C	HLSF-0154-DRW-004-0312	SW6020	51099	1	3/26/2012 5:15:00 PM	3/23/2012 8:39:57 AM	A
CCV2-120326	----	SW6020	R59760	1	3/26/2012 5:55:00 PM		A
CCB2-120326	----	SW6020	R59760	1	3/26/2012 6:11:00 PM		A

Run ID: TITRATOR_120321A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV2-120321	----	M4500-H+ B	R59698	1	3/21/2012 11:38:00 AM	3/21/2012 11:38:00 AM	A
ICV1-120321	----	M4500-H+ B	R59698	1	3/21/2012 11:39:00 AM	3/21/2012 11:39:00 AM	A
ICV-120321	----	M4500-H+ B	R59698	1	3/21/2012 11:41:00 AM	3/21/2012 11:41:00 AM	A
1203192-01D	HLSF-0154-HCF-001-0312	M4500-H+ B	51081	1	3/21/2012 11:42:00 AM	3/21/2012 11:00:00 AM	A
1203192-01D DUP	HLSF-0154-HCF-001-0312PD9	M4500-H+ B	51081	1	3/21/2012 11:44:00 AM	3/21/2012 11:00:00 AM	A
1203192-02D	HLSF-0154-RB-001-0312	M4500-H+ B	51081	1	3/21/2012 11:47:00 AM	3/21/2012 11:00:00 AM	E
1203192-03D	HLSF-0154-DRW-004-0312	M4500-H+ B	51081	1	3/21/2012 11:49:00 AM	3/21/2012 11:00:00 AM	A
CCV-120321	----	M4500-H+ B	R59698	1	3/21/2012 11:50:00 AM	3/21/2012 11:50:00 AM	A

Lab Order: 1203192
Client: Zia Engineering & Environmental
Project: HELSTF Diesel Spill

Sequence Report

Run ID: TOC_120322A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120322	----	M5310C	R59724	1	3/22/2012 10:42:00 AM	3/22/2012 8:30:00 AM	A
LCS-51090	----	M5310C	51090	1	3/22/2012 11:03:00 AM	3/22/2012 8:30:00 AM	A
MB-51090	----	M5310C	51090	1	3/22/2012 11:28:00 AM	3/22/2012 8:30:00 AM	A
1203192-02B	HLSF-0154-RB-001-0312	M5310C	51090	1	3/22/2012 1:50:00 PM	3/22/2012 8:30:00 AM	E
1203192-03B	HLSF-0154-DRW-004-0312	M5310C	51090	1	3/22/2012 2:13:00 PM	3/22/2012 8:30:00 AM	A
1203192-01B	HLSF-0154-HCF-001-0312	M5310C	51090	2	3/22/2012 2:56:00 PM	3/22/2012 8:30:00 AM	A
1203161-02B MS	----	M5310C	51090	1	3/22/2012 3:20:00 PM	3/22/2012 8:30:00 AM	A
1203161-02B MSD	----	M5310C	51090	1	3/22/2012 3:44:00 PM	3/22/2012 8:30:00 AM	A
CCV-120322	----	M5310C	R59724	1	3/22/2012 4:04:00 PM	3/22/2012 8:30:00 AM	A

Run ID: UV/VIS_2_120321A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-120321	----	M3500-Cr D	R59693	1	3/21/2012 12:35:00 PM		A
MB-51073	----	M3500-Cr D	51073	1	3/21/2012 12:35:00 PM	3/21/2012 11:32:36 AM	A
LCS-51073	----	M3500-Cr D	51073	1	3/21/2012 12:35:00 PM	3/21/2012 11:32:36 AM	A
LCSD-51073	----	M3500-Cr D	51073	1	3/21/2012 12:38:00 PM	3/21/2012 11:32:36 AM	A
1203192-01D	HLSF-0154-HCF-001-0312	M3500-Cr D	51073	1	3/21/2012 12:38:00 PM	3/21/2012 11:32:36 AM	A
1203192-01D MS	HLSF-0154-HCF-001-0312MS	M3500-Cr D	51073	1	3/21/2012 12:42:00 PM	3/21/2012 11:32:36 AM	A
1203192-01D MSD	HLSF-0154-HCF-001-0312MSD	M3500-Cr D	51073	1	3/21/2012 12:42:00 PM	3/21/2012 11:32:36 AM	A
1203192-02D	HLSF-0154-RB-001-0312	M3500-Cr D	51073	1	3/21/2012 12:45:00 PM	3/21/2012 11:32:36 AM	E
1203192-03D	HLSF-0154-DRW-004-0312	M3500-Cr D	51073	1	3/21/2012 12:45:00 PM	3/21/2012 11:32:36 AM	A
CCV-120321	----	M3500-Cr D	R59693	1	3/21/2012 12:45:00 PM		A